

In re Patent Application of:
FOLIO
Serial No. 09/896,894
Filed: JUNE 29, 2001

In the Claims:

1. (Original) A supplemental audio content system for providing supplemental audio content to at least one movie patron during playing of a motion picture film and associated soundtrack in a cinema of cineplex comprising a plurality of individual cinemas, the supplemental audio content system comprising:

a supplemental audio content player for playing supplemental audio content during playing of the motion picture and associated soundtrack;

a wireless transmitter connected to said supplemental audio content player;

at least one earphone to be worn by the at least one movie patron; and

at least one wireless receiver connected to said at least one earphone and cooperating with said wireless transmitter to deliver supplemental audio content to the at least one movie patron;

said wireless transmitter and wireless receiver having operating characteristics to avoid interference with respective supplemental audio content systems for other cinemas of the cineplex.

2. (Original) A supplemental audio content system according to Claim 1 wherein the supplemental audio content comprises spoken words devoid of music and sound effects.

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3. (Original) A supplemental audio content system according to Claim 1 wherein the supplemental audio content comprises alternate language audio content.

4. (Original) A supplemental audio content system according to Claim 1 wherein the supplemental audio content comprises descriptive narrative audio content.

5. (Original) A supplemental audio content system according to Claim 1 wherein said wireless transmitter comprises a digital modulator; and wherein said at least one wireless receiver comprises a digital demodulator.

6. (Original) A supplemental audio content system according to Claim 1 wherein said wireless transmitter comprises a spread spectrum modulator; and wherein said at least one wireless receiver comprises a spread spectrum demodulator.

7. (Original) A supplemental audio content system according to Claim 6 wherein said spread spectrum modulator uses direct sequence spread spectrum modulation; and wherein said spread spectrum demodulator uses direct sequence spread spectrum demodulation.

8. (Original) A supplemental audio content system according to Claim 6 wherein said spread spectrum modulation uses frequency hopping spread spectrum modulation; and wherein

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said spread spectrum demodulator uses frequency hopping spread spectrum demodulation.

9. (Original) A supplemental audio content system according to Claim 1 wherein said wireless transmitter and said at least one wireless receiver use at least one selectable channel.

10. (Original) A supplemental audio content system according to Claim 9 wherein the at least one selectable channel comprises at least one selectable radio frequency channel.

11. (Original) A supplemental audio content system according to Claim 1 wherein said wireless transmitter comprises a radio frequency (RF) transmitter; and wherein said at least one wireless receiver comprises at least one RF receiver.

12. (Original) A supplemental audio content system according to Claim 11 wherein said RF transmitter and at least one RF receiver operate in an unlicensed RF band.

13. (Original) A supplemental audio content system according to Claim 11 wherein said RF transmitter and said at least one RF receiver operate in a range of about 2.400 to 2.4835 Ghz.

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14. (Original) A supplemental audio content system according to Claim 1 wherein said wireless transmitter comprises an infrared transmitter; and wherein said at least one wireless receiver comprises at least one infrared receiver.

15. (Original) A supplemental audio content system according to Claim 1 wherein said at least one wireless receiver comprises a respective wireless receiver for each at least one earphone.

16. (Original) A supplemental audio content system according to Claim 1 further comprising at least one earphone level control connected to said at least one earphone.

17. (Original) A supplemental audio content system according to Claim 1 wherein said at least one earphone comprises at least one open field earphone.

18. (Original) A supplemental audio content system according to Claim 1 wherein said supplemental audio content player comprises:

a storage device for storing the supplemental audio content; and

a processor for reading the supplemental audio content from said storage device during playing of the motion picture and associated soundtrack.

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19. (Original) A supplemental audio content system for providing supplemental audio content to at least one movie patron during playing of a motion picture film and associated soundtrack in a cinema of cineplex comprising a plurality of individual cinemas, the supplemental audio content system comprising:

a supplemental audio content player for playing supplemental audio content during playing of the motion picture and associated soundtrack;

a wireless transmitter connected to said supplemental audio content player; and

at least one movie patron unit comprising an earphone and a wireless receiver connected thereto and cooperating with said wireless transmitter to deliver supplemental audio content to the at least one movie patron;

said wireless transmitter and wireless receiver comprising a digital modulator and a digital demodulator respectively to avoid interference with respective supplemental audio content systems for other cinemas of the cineplex.

20. (Original) A supplemental audio content system according to Claim 19 wherein the supplemental audio content comprises spoken words devoid of music and sound effects.

21. (Original) A supplemental audio content system according to Claim 19 wherein the supplemental audio content comprises alternate language audio content.

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22. (Original) A supplemental audio content system according to Claim 19 wherein the supplemental audio content comprises descriptive narrative audio content.

23. (Original) A supplemental audio content system according to Claim 19 wherein said digital modulator uses direct sequence spread spectrum modulation; and wherein said digital demodulator uses direct sequence spread spectrum demodulation.

24. (Original) A supplemental audio content system according to Claim 19 wherein said digital modulator uses frequency hopping spread spectrum modulation; and wherein said digital demodulator uses frequency hopping spread spectrum demodulation.

25. (Original) A supplemental audio content system according to Claim 19 wherein said wireless transmitter and said at least one wireless receiver use at least one selectable channel.

26. (Original) A supplemental audio content system according to Claim 25 wherein the at least one selectable channel comprises at least one selectable radio frequency channel.

27. (Original) A supplemental audio content system according to Claim 19 wherein said wireless transmitter comprises a radio frequency (RF) transmitter; and wherein said

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at least one wireless receiver comprises at least one RF receiver.

28. (Original) A supplemental audio content system according to Claim 19 wherein said wireless transmitter comprises an infrared transmitter; and wherein said at least one wireless receiver comprises at least one infrared receiver.

29. (Original) A supplemental audio content system according to Claim 19 wherein said movie patron unit further comprises an earphone level control connected to said earphone.

30. (Original) A supplemental audio content system according to Claim 19 wherein said earphone comprises an open field earphone.

31. (Original) A supplemental audio content system according to Claim 19 wherein said supplemental audio content player comprises:

a storage device for storing the supplemental audio content; and

a processor for reading the supplemental audio content from said storage device during playing of the motion picture and associated soundtrack.

32. (Original) A supplemental audio content system for providing supplemental audio content to at least one movie

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patron during playing of a motion picture film and associated soundtrack in a cinema of cineplex comprising a plurality of individual cinemas, the supplemental audio content system comprising:

- a supplemental audio content player for playing supplemental audio content during playing of the motion picture and associated soundtrack;

- a wireless transmitter connected to said supplemental audio content player;

- at least one earphone to be worn by the at least one movie patron; and

- at least one wireless receiver connected to said at least one earphone and cooperating with said wireless transmitter to deliver supplemental audio content to the at least one movie patron;

- said wireless transmitter and wireless receiver comprising a spread spectrum modulator and a spread spectrum demodulator respectively.

33. (Original) A supplemental audio content system according to Claim 32 wherein the supplemental audio content comprises spoken words devoid of music and sound effects.

34. (Original) A supplemental audio content system according to Claim 32 wherein the supplemental audio content comprises alternate language audio content.

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35. (Original) A supplemental audio content system according to Claim 32 wherein the supplemental audio content comprises descriptive narrative audio content.

36. (Original) A supplemental audio content system according to Claim 32 wherein said spread spectrum modulator uses direct sequence spread spectrum modulation; and wherein said spread spectrum demodulator uses direct sequence spread spectrum demodulation.

37. (Original) A supplemental audio content system according to Claim 32 wherein said spread spectrum modulator uses frequency hopping spread spectrum modulation; and wherein said spread spectrum demodulator uses frequency hopping spread spectrum demodulation.

38. (Original) A supplemental audio content system according to Claim 32 wherein said wireless transmitter comprises a radio frequency (RF) transmitter; and wherein said at least one wireless receiver comprises at least one RF receiver.

39. (Original) A supplemental audio content system according to Claim 38 wherein said RF transmitter and at least one RF receiver operate in an unlicensed RF band.

40. (Original) A supplemental audio content system according to Claim 38 wherein said RF transmitter and said at

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least one RF receiver operate in a range of about 2.400 to 2.4835 Ghz.

41. (Original) A supplemental audio content system according to Claim 32 further comprising at least one earphone level control connected to said at least one earphone.

42. (Original) A supplemental audio content system according to Claim 32 wherein said at least one earphone comprises at least one open field earphone.

43. (Original) A supplemental audio content system according to Claim 32 wherein said supplemental audio content player comprises:

a storage device for storing the supplemental audio content; and

a processor for reading the supplemental audio content from said storage device during playing of the motion picture and associated soundtrack.

44. (Previously amended) A supplemental audio content system for providing supplemental audio content to at least one movie patron during playing of a motion picture film and associated soundtrack in a cinema of a cineplex comprising a plurality of individual cinemas, the supplemental audio content system comprising:

a supplemental audio content player for playing supplemental audio content during playing of the motion picture and associated soundtrack;

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an infrared transmitter connected to said supplemental audio content player;

at least one earphone to be worn by the at least one movie patron; and

at least one infrared receiver connected to said at least one earphone and cooperating with said infrared transmitter to deliver supplemental audio content to the at least one movie patron.

45. (Original) A supplemental audio content system according to Claim 44 wherein the supplemental audio content comprises spoken words devoid of music and sound effects.

46. (Original) A supplemental audio content system according to Claim 44 wherein the supplemental audio content comprises alternate language audio content.

47. (Original) A supplemental audio content system according to Claim 44 wherein the supplemental audio content comprises descriptive narrative audio content.

48. (Original) A supplemental audio content system according to Claim 44 further comprising at least one earphone level control connected to said at least one earphone.

49. (Original) A supplemental audio content system according to Claim 44 wherein said at least one earphone comprises at least one open field earphone.

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50. (Original) A supplemental audio content system according to Claim 44 wherein said supplemental audio content player comprises:

a storage device for storing the supplemental audio content; and

a processor for reading the supplemental audio content from said storage device during playing of the motion picture and associated soundtrack.

51. (Original) A method for delivering supplemental audio content to at least one movie patron during playing of a motion picture film and associated soundtrack in a cinema of cineplex comprising a plurality of individual cinemas, the method comprising:

providing at least one movie patron unit comprising an earphone and a wireless receiver connected thereto; and

wirelessly transmitting the supplemental audio content from a wireless transmitter to the at least one movie patron unit to thereby deliver supplemental audio content to the at least one movie patron;

the wireless transmitter and wireless receiver having operating characteristics to avoid interference with respective supplemental audio content systems for other cinemas of the cineplex.

52. (Original) A method according to Claim 51 wherein the supplemental audio content comprises spoken words devoid of music and sound effects.

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53. (Original) A method according to Claim 51 wherein the supplemental audio content comprises alternate language audio content.

54. (Original) A method according to Claim 51 wherein the supplemental audio content comprises descriptive narrative audio content.

55. (Original) A method according to Claim 51 wherein the wireless transmitter uses digital modulation; and wherein the at least one wireless receiver uses digital demodulation.

56. (Original) A method according to Claim 51 wherein the wireless transmitter uses spread spectrum modulation; and wherein the at least one wireless receiver uses spread spectrum demodulation.

57. (Original) A method according to Claim 56 wherein the spread spectrum modulation comprises direct sequence spread spectrum modulation; and wherein the spread spectrum demodulation comprises direct sequence spread spectrum demodulation.

58. (Original) A method according to Claim 56 wherein the spread spectrum modulation comprises frequency hopping spread spectrum modulation; and wherein the spread spectrum demodulation comprises frequency hopping spread spectrum demodulation.

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59. (Original) A method according to Claim 51 wherein the wireless transmitter and the at least one wireless receiver use at least one selectable channel.

60. (Original) A method according to Claim 59 wherein the at least one selectable channel comprises at least one selectable radio frequency channel.

61. (Original) A method according to Claim 51 wherein the wireless transmitter comprises a radio frequency RF transmitter; and wherein the at least one wireless receiver comprises at least one RF receiver.

62. (Original) A method according to Claim 51 wherein the wireless transmitter comprises an infrared transmitter; and wherein the at least one wireless receiver comprises at least one infrared receiver.

63. (Original) A method according to Claim 51 wherein the movie patron unit further comprises an earphone level control connected to the earphone.

64. (Original) A method according to Claim 51 wherein the earphone comprises an open field earphone.